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10/014,873	12/14/2001	Jonathan Edwards	19903.0012	1763
23517 75	90 01/12/2006		EXAMINER	
SWIDLER BE	ERLIN LLP		ZAND, K	AMBIZ
3000 K STREE	T, NW			
BOX IP			ART UNIT	PAPER NUMBER
WASHINGTON, DC 20007			2132	
			DATE MAIL ED: 01/12/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

## DOTAL AT 3 ## DOWNERS ET AL. Examiner		Application No.	Applicant(s)
Examiner Kambiz Zand - The MAILIND DATE of this communication appears on the cover sheet with the correspondence address Period for Repty A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.73(e). In no event, however, may a reply be timely fired with 57 Kg MONTHS from the mailing due of this communication. - If no period for triply its section of the section of t			
Kambiz Zand 2132	Office Action Summary		
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2a) ☐ This action is FINAL. 2b) ☐ This action is non-final. 3 ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ☐ Claim(s) 1-48 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) 1-2 4-15, 17-28, 30-41 and 43-48 is/are rejected. 7) ☐ Claim(s) 3.16.29 and 42 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 14 December 2001 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1 ☐ Certified copies of the priority documents have been received. 2 ☐ Certified copies of the priority documents have been received in Application No 3 ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.	Status		
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DETAILED ACTION

1. The text of those sections of Title 35,U.S.Code not included in this section can be found in the prior office action.

- The prior office actions are incorporated herein by reference. In particular, the observations with respect to claim language, and response to previously presented arguments.
- 3. Claims 1, 7, 14, 20, 27 and 33 have been amended.
- 4. New claims 40-48 have been added.
- 5. Claims 1-48 are pending.

Response to Arguments

- 6. Applicant's arguments with respect to the claims have been considered but are most in view of the new ground(s) of rejection.
- In response to applicant's arguments, the time interval between the interception and the scanning is taught by Le Pennec where files are intercepted in real time and after the interception it is scanned or where the file after interception are compared with stored files to check if the signature is different in order to issue the scanning in case of the difference checksum, such time after the interception and before the scanning corresponds to applicant's "waiting time" (see page 1-2.
- However Examiner has given weight to applicant's arguments in view of claims 3,
 16, 29 and 42 where if such limitation taken into account then the applicant's

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arguments are persuasive. Therefore the rejections of claims 3, 16, 29 and 42 have been withdrawn (please see allowable subject matters below).

Claim Rejections - 35 USC § 102

7. Claims 1-2, 4-15, 17-28, 30-41 and 43-48 are rejected under 35 U.S.C. 102(e) as being anticipated by Le Pennec et al (2001/0020272 A1).

As per claims 1, 14 and 27 Le Pennec et al (2001/0020272 A1) teach a method, system and computer program product of detecting a malware comprising the steps of: monitoring file access operations of a process (see page 2); intercepting a file access operation of the process to a file (see page 2, paragraph 0042 and 0043);

in response to the intercepting, waiting a time interval between the intercepting and scanning the file for a malware (see page 2, paragraph 0046-0050); and scanning the file for the malware, after waiting the time interval (see page 2, paragraph 0046-0050).

As per claims 2, 15 and 28 Le Pennec et al (2001/0020272 A1) teach the method, system and computer program product of claims 1, 14 and 27, wherein the process is associated with an application program (see page 2-16 where many instances relates to the above limitation).

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As per claims 4, 17 and 30 Le Pennec et al (2001/0020272 A1) teach the method, system and computer program product of claims 1, 14 and 27, wherein the file has a specified file type (see page 2-16 where many instances relates to the above limitation).

As per claims 5, 18 and 31 Le Pennec et al (2001/0020272 A1) teach the method, system and computer program product of claims 1, 14 and 27, wherein the time interval is predefined (see page 2, paragraph 0046-0050).

As per claims 6, 19 and 32 Le Pennec et al (2001/0020272 A1) teach the method, system and computer program product of claims 1, 14 and 27, wherein the time interval is user-defined (see page 2 where setting the manual time interval is considered as user defined time interval).

As per claims 7, 20 and 33 Le Pennec et al (2001/0020272 A1) teach the method, system and computer program product of claims 1, 14 and 27, wherein the time interval is based on a file type of the file (see page 2-16 where many instances relates to the above limitation).

As per claims 8, 21 and 34 Le Pennec et al (2001/0020272 A1) teach the method, system and computer program product of claims 1, 14 and 27, wherein the time interval

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is based on the process(see page 2-16 where many instances relates to the above limitation).

As per claims 9, 22 and 35 Le Pennec et al (2001/0020272 A1) teach the method, system and computer program product of claims 1, 14 and 27, wherein the malware is a computer virus (see page 2).

As per claims 10, 23 and 36 Le Pennec et al (2001/0020272 A1) teach the method, system and computer program product of claims 1, 14 and 27, wherein the malware is a computer worm (see page 2-5).

As per claims 11, 24 and 37 Le Pennec et al (2001/0020272 A1) teach the method, system and computer program product of claims 1, 14 and 27, wherein the malware is a Trojan horse program.

As per claims 12, 25 and 38 Le Pennec et al (2001/0020272 A1) teach the method, system and computer program product of claims 1, 14 and 27, further comprising the step of: allowing the intercepted file access operation of the process to a file to complete ((see page 2-16 where many instances relates to the above limitation).

As per claims 12, 26 and 39 Le Pennec et al (2001/0020272 A1) teach the method, system and computer program product of claims 12, 54 and 38, further comprising the

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step of: allowing at least one additional file access operation of the process to a file that occurs before the scanning of the file for a malware to complete (see page 2-16 where many instances relates to the above limitation).

As per claim 40 Le Pennec et al (2001/0020272 A1) teach the method of claim 1, wherein at least a portion of the file access operations are completed before the scanning (see page 2-16).

As per claim 41 Le Pennec et al (2001/0020272 A1) teach the method of claim 1, wherein at least a portion of the file access operations are completed during the scanning (see page 2-16).

As per claim 43 Le Pennec et al (2001/0020272 A1) teach the method of claim 1, wherein the file access operations that occur on the file after the intercepting of a file write operation are completed during the scanning (see page 2-16).

As per claim 44 Le Pennec et al (2001/0020272 A1) teach the method of claim 1, wherein the file access operations lasts less than the time interval, only a last file access operation of the set is scanned (see page 2-16).

As per claim 45 Le Pennec et al (2001/0020272 A1) teach the method of claim 1, wherein only a sample of a set of the file access operations is scanned (see page 2-16).

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As per claim 46 Le Pennec et al (2001/0020272 A1) teach the method of claim 1, wherein a final version of the file is scanned, after all of the file access operations of a set are complete (see page 2-16).

As per claim 47 Le Pennec et al (2001/0020272 A1) teach the method of claim 1, wherein the time interval is longer than at least one of an open cycle, a write cycle, and a close cycle associated with the file access operations (see page 2-16).

As per claim 48 Le Pennec et al (2001/0020272 A1) teach the method of claim 1, wherein the time interval is initiated after interception of a first file access operation such that, during the time interval, multiple subsequent file access operations are completed without the scanning, after which the file is scanned (see page 2-16).

Allowable Subject Matter

8. Claims 3, 16, 29 and 42 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

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9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kambiz Zand whose telephone number is (571) 272-3811. The examiner can normally reached on Monday-Thursday (8:00-5:00). If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on (571) 272-3799. The fax phone numbers for the organization where this application or proceeding is assigned as 571-272-8300. Information regarding the status of an application may be obtained from the Patent Applications may be obtained from either Private PAIR

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or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kambiz Zand

01/03/2006

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